	Application No.	Applicant(s)	/
Notice of Allowability	10/063,532	GODDARD ET AL.	(
	Examiner	Art Unit	
	Jacobbassas Cabassas Dh.D.	4647	
	Jegatheesan Seharaseyon, Ph.D	1647	<u> </u>
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	olication. If not included will be mailed in due cou	rse. THIS
1. This communication is responsive to <u>4/10/2006</u> .			
2. The allowed claim(s) is/are 6-8 and 11-13.			
3. Acknowledgment is made of a claim for foreign priority ur	nder 35 U.S.C. § 119(a)-(d) or (f).	•	
a) All b) Some* c) None of the:			
1. Certified copies of the priority documents have	e been received.		
2. Certified copies of the priority documents have	e been received in Application No.	<u> </u>	
3. Copies of the certified copies of the priority do	cuments have been received in this i	national stage application	from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:		· ·	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the require	ements
4. A SUBSTITUTE OATH OR DECLARATION must be subminFORMAL PATENT APPLICATION (PTO-152) which give			CE OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) including changes required by the Notice of Draftspers	son's Patent Drawing Review (PTO-	948) attached	
1) hereto or 2) to Paper No./Mail Date	<u>:</u>		
(b) including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the O	ffice action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the			k) of
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT			the
Attachment(s)			/
1. Notice of References Cited (PTO-892)	5. Notice of Informal P	atent Application	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	(PTO-413),	
3. ☑ Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Dat 7. ⊠ Examiner's Amendn	ė	
Paper No./Mail Date 4/10/2006 4. Examiner's Comment Regarding Requirement for Deposit	8:¹⊠ Examiner's Stateme	nt of Reasons for Allowar	nce
of Biological Material	9.		
	. -	CHRISTINE J. SAOUL PRIMARY EXAMINER	
		Christine O. Sa	oud

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DETAILED ACTION

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 4/10/2006 has been entered. An action on the RCE follows.

2. Claims 6-8 and 11-17 are pending.

Information Disclosure Statement

3. The IDS submitted on 4/10/2006 have been considered.

Priority

4. Applicants are entitled to a priority date of 8/24/2000 based on the enabling disclosure of the differential mRNA expression in normal and tumor tissues disclosed in PCT/US00/23328.

EXAMINER'S AMENDMENT

5. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with AnneMarie Kaiser on 7/27/06.

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In the claims:

Please cancel claims 14-17.

REASONS FOR ALLOWANCE

6. The claims of the instant invention are directed to an isolated polypeptide of SEQ ID NO: 30. The specification provides several asserted utilities at page 93, including that the PRO polypeptides of the present invention may be differentially expressed in a diseased tissue as compared to a normal tissue of the same tissue type.

Applicant states at page 7 of their response that the gene expression data in the specification, Example 18, shows that the mRNA associated with the PRO831 polypeptide was more highly expressed in kidney tumor or normal lung tissues compared to normal kidney or lung tumor tissues. Gene expression was analyzed using standard semi-quantitative PCR amplification reactions of cDNA libraries isolated from different human tumor and normal human tissue samples. Identification of the differential expression of the PRO831 polypeptide-encoding gene in tumor tissue compared to the corresponding normal tissue renders the molecule useful and enabled as a diagnostic tool for the determination of the presence or absence of tumor.

Example 18 at page 140 of the instant specification demonstrates differential expression of PRO831 cDNA using quantitative PCR amplification reactions.

DNA56868-1478 was shown to be more highly expressed in kidney tumor or normal lung tissues compared to normal kidney or lung tumor tissues in this Example.

Applicant states at page 7 of the response that Example 18 utilizes a more accurate and reliable method of assessing changes in mRNA levels, namely quantitative PCR

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analysis. Applicant relies on more than 130 references (see IDS filed 4/10/06), where expression levels of mRNA, measured by quantitative PCR, were found to have a good correlation to the expressed protein levels.

It had been previously argued in the Office Actions mailed on 1/14/05, 6/22/05 and 12/7/05 that mRNA levels were not predictive of protein levels, citing references by Haynes et al., Gygi et al., and Chen et al. However, these references were measuring and analyzing mRNA levels using microrarrays, not using quantitative PCR analysis and the art recognizes that the results obtained by microarray are not always the same as the results obtained using quantitative PCR (for example, see Oda et al. Virchows Arch. 430: 99-105, 1997, specifically page 104, column 1, paragraph 2). While the PTO found several references in which the protein expression levels did not correlate with mRNA levels measured by quantitative PCR (see Sugg et al., Clinical Endocrinology 49: 629-637, 1998; Toler et al., Am. J. Obstet. Gynecol. 194: e27-e31, 2006; Berner et al. Histopathol. 42: 546-554, 2003; Brooks et al. Am. J. Physiol. Renal Physiol. 284: F218-F228, 2003), the majority of the references which were found, including those cited by Applicant, demonstrated a correlation between mRNA levels measured by quantitative PCR and protein expression levels.

Applicant asserts that the expression levels of protein correlate to mRNA (cDNA) levels when the cDNA is measured by quantitative PCR (i.e. RTPCR). Applicant has provided more than 130 references in support of this position. The prior art of record (Haynes et al., Gygi et al., Chen et al.), argued by the Examiner, is not specifically directed to message levels measured by RTPCR. Based on the totality of evidence of

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record, one of skill in the art would find it more likely than not that an increase in message as measured by RTPCR would be predictive of an increase in protein expression levels, absent evidence to the contrary. Therefore, the data presented in Example 18, which demonstrates differential expression of nucleic acids encoding PRO831, also supports a conclusion of differential expression of the PRO831 polypeptide. Therefore, one of ordinary skill in the art would be able to use the PRO831 polypeptide diagnostically for distinguishing kidney tumor or normal lung tissues compared to normal kidney or lung tumor tissues, as asserted by Applicant.

7. Claims 6-8 and 11-13 are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jegatheesan Seharaseyon, Ph.D whose telephone number is 571-272-0892. The examiner can normally be reached on M-F: 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brenda Brumback can be reached on 571-272-0961. The fax phone

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number for the organization where this application or proceeding is assigned is 571-

273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JS 08/06

CHRISTINE J. SAOUD PRIMARY EXAMINER

Christins J. Saoud